

SEQUENCE LISTING

<110> Director-General of Agency of Industrial Science and Technology

<120> Expression Systems for Transcription of Functional Nucleic Acids

<130> 117F0059

<140>

<141>

<150> JP 10/244755

<151> 1998-8-31

<160> 23

<170> PatentIn Ver. 2.0

<210> 1

<211> 136

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the nucleotide
sequence of Rz2

<400> 1

accguugguu uccguagugu agugguauc acguucgccu aacacgcgaa aggucccg 60
uucgaaaccg ggcacuacaa acacaacacu gaugaggacc gaaaggucg aaacgggcac 120
guccggaaacg guuuuu 136

<210> 2

<211> 142

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the nucleotide
sequence of Rz3

<400> 2

accguugguu uccguagugu agugguauc acguucgccu aacacgcgaa aggucccg 60
uucgaaaccg ggcacuacaa accaacacac aacacugaug aggaccgaaa gguccgaaac 120
gggcacgucg gaaacgguuu uu 142

<210> 3

<211> 128

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the nucleotide
sequence of Rz1

<400> 3

accguugguu uccguagugu agugguuauac acguucgccc aacacgcgaa agguccccgg 60
uucgaaacccg ggcacccaca caacacugau gaguccguga ggacgaaacg ggcaccucga 120
gcgcuuuu 128

<210> 4

<211> 95

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the nucleotide
sequence of the transcript of human placental tRNA^{Va1}

<400> 4

accguugguu uccguagugu agugguuauac acguucgccc aacacgcgaa agguccccgg 60
uucgaaacccg ggcggaaaca aagacagucg cuuuu 95

<210> 5

<211> 149

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the nucleotide
sequence of Rz4

<400> 5

accguugguu uccguagugu agugguuauac acguucgccc aacacgcgaa agguccccgg 60

uucgaaaccg ggcacccggg uggcugucac cggaagugcu uuccggucuc augaguuccgu 120
gagggcgaaa cagccacucg agcgcuuuu 149

· 210> 6

· 211> 110

· 212> DNA

· 213 · Artificial Sequence

· 220>

· 223 · Description of Artificial Sequence: the sequence
of a sence oligonucleotide linker

· 400> 6

aattcaggac tagtctttta ggtcaaaaag aagaagcttt gtaaccgttg gtttccgtag 60
tgtatgggtt atcacgttcg cctaacaacgc gaaagggtccc cggttcgaag 110

· 210> 7

· 211> 113

· 212> DNA

· 213 · Artificial Sequence

· 220>

· 223 · Description of Artificial Sequence: the sequence
of an antisense oligonucleotide linker

· 400> 7

tgcacttoga accggggacc ttgcgcgtgt taggcgaacg tgataaccac tacactacgg 60
aaacccaacgg ttacaaagct tctttttttt tttgacctaa aagacttagtc ctg 113

· 210> 8
· 211> 53
· 212> DNA
· 213> Artificial Sequence

· 220>
<223> Description of Artificial Sequence: the sequence
of a sense oligonucleotide linker

· 400> 8
cgaaaaccggg caccggggga atataacctc gagcgctttt tttctatcgc gtc 53

<210> 9
<211> 54
· 212> DNA
· 213> Artificial Sequence

· 220>
<223> Description of Artificial Sequence: the sequence
of an antisense oligonucleotide linker

· 400> 9
tgcacgcgtt agaaaaaaag cgctcgaggtaatattcccc gggtgccggg ttgc 54

· 210> 10
· 211> 23
· 212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of an upper primer

<400> 10

cgccagggtt tcccagtcac gac

23

<210> 11

<211> 101

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a lower primer including the sequences of Rz1
and a terminator

<400> 11

ctgcaggatcg acgcataaga aaaaaagcgc tcgaggatgcc cgtttcgatcc tcacggactc 60
atcagtgttg tgatggatgcc cggtttcgaa ccgggacatt t 101

<210> 12

<211> 109

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a lower primer including the sequences of Rz2
and a terminator

<400> 12

c~~tgcagg~~tcg acgc~~gataga~~ aaaaaaccgt t~~ccgacgt~~g cccg~~ttt~~cg~~g~~ tcct~~tt~~cg~~gt~~ 60
c~~ctcat~~ca~~gt~~ g~~t~~tg~~tg~~t~~tg~~ tagtgc~~ccgg~~ t~~tcgaacc~~g gggacc~~ttt~~ 109

<210> 13

<211> 106

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a lower primer including the sequences of Rz3
and a terminator

<400> 13

c~~tgcagg~~tcg acgc~~gataga~~ aaaaaaccgt t~~ccgacgt~~g cccg~~ttt~~cg~~g~~ tcctcat~~ca~~g 60
t~~gttgtgt~~gt~~t~~g~~t~~t~~tg~~ tagtgc~~ccgg~~ t~~tcgaacc~~g gggacc~~ttt~~ 106

<210> 14

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a probe specific for the reference RNA

<400> 14

aaatcgctat aaaaagcgct cgaggtaatg ctcccccgggt

40

<210> 15

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a probe specific for the ribozyme

<400> 15

ctcaatctgtg ttgtgt

16

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a primer for b-actin

<400> 16

gtggccatct ctgcgtcgaa 20
· 210 · 17
· 211 · 18
· 212 · DNA
· 213 · Artificial Sequence

· 220 ·
· 223 · Description of Artificial Sequence: the sequence
of a primer for the ribozyme

· 400 · 17
gaccctttcgg tcctcatac 18

· 210 · 18
· 211 · 20
· 212 · DNA
· 213 · Artificial Sequence

· 220 ·
· 223 · Description of Artificial Sequence: the sequence
of an upper oligonucleotide primer

· 400 · 18
gactaacctca tgaagatcct 20

· 210 · 19
· 211 · 20
· 212 · DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a lower oligonucleotide primer

<400> 19

gtggccatct cttgctcgaa 20

<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of an upper oligonucleotide primer

<400> 20

gttatcacgt tcgcctaa 18

<210> 21

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: the sequence
of a lower oligonucleotide primer

<400> 21
gacc~~t~~tcgg tcctcate 18

<210> 22
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: the sequence
of a probe specific for the ribozyme

<400> 22
acgcgaaagg tcccccgt 18

<210> 23
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: the sequence
of a probe specific for b-actin

<400> 23
gcggaaaat cgtgcgtga 19

SEQUENCE LISTING FREE TEXT

SEQ ID NO. 1: Nucleotide sequence of Rz2.

SEQ ID NO. 2: Nucleotide sequence of Rz3.

SEQ ID NO. 3: Nucleotide sequence of Rz1.

SEQ ID NO. 4: Nucleotide sequence of human placental tRNA^{val} transcript.

SEQ ID NO. 5: Nucleotide sequence of Rz4.

SEQ ID NO. 6: Nucleotide sequence of a sense oligonucleotide linker.

SEQ ID NO. 7: Nucleotide sequence of an antisense oligonucleotide linker.

SEQ ID NO. 8: Nucleotide sequence of a sense oligonucleotide linker.

SEQ ID NO. 9: Nucleotide sequence of an antisense oligonucleotide linker.

SEQ ID NO. 10: Nucleotide sequence of an upper primer.

SEQ ID NO. 11: Nucleotide sequence of a lower primer comprising sequences of Rz1 and a terminator.

SEQ ID NO. 12: Nucleotide sequence of a lower primer comprising sequences of Rz2 and a terminator.

SEQ ID NO. 13: Nucleotide sequence of a lower primer comprising sequences of Rz3 and a terminator.

SEQ ID NO. 14: Nucleotide sequence of a reference RNA-specific probe.

SEQ ID NO. 15: Nucleotide sequence of a ribozyme-specific probe.

SEQ ID NO. 16: Nucleotide sequence of a primer for β -actin.

SEQ ID NO. 17: Nucleotide sequence of a primer for ribozyme.

SEQ ID NO. 18: Nucleotide sequence of an upper oligonucleotide primer.

SEQ ID NO. 19: Nucleotide sequence of a lower oligonucleotide primer.

SEQ ID NO. 20: Nucleotide sequence of an upper oligonucleotide primer.

SEQ ID NO. 21: Nucleotide sequence of a lower oligonucleotide primer.

SEQ ID NO. 22: Nucleotide sequence of a ribozyme-specific probe.

SEQ ID NO. 23: Nucleotide sequence of a β -actin-specific probe.